IN THE CLAIMS:

1. (Cancelled)

2. (Cancelled)

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Currently amended) A luminescent glass obtained by a process comprising the steps of adsorbing, to a porous high silica glass, at least one metal component selected from the group consisting of Sc, Y, La, Pr, Nd, Pm, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, and elements of Groups ~~IIIA,~~ IVA, VA, VIA, VIIA, VIII, IIB and IVB of the Periodic Table; and thereafter heating the porous glass in a reducing atmosphere, the luminescent glass comprising at least 96 wt.% of SiO_2, 0.5 to 3 wt.% of B_2O_3, 0.1 to 1.5 wt.% of Al_2O_3, and 50 to 2000 ppm of at least one metal component selected from the group consisting of Sc, Y, La, Pr, Nd, Pm, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, and elements of Groups ~~IIIA,~~ IVA, VA, VIA, VIIA, VIII, IIB and IVB of the Periodic Table.

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Previously presented) A luminescent glass according to Claim **10**, wherein the metal component to be adsorbed to the porous high silica glass is at least one member selected from the group consisting of elements of the fourth period of the Periodic Table, elements of the fifth period of the Periodic Table, and lanthanoids.

15. (Previously presented) A luminescent glass according to Claim **14**, wherein the metal component to be adsorbed to the porous high silica glass is at least one member selected from the group consisting of V, Cr, Mn, Fe, Co, Ni, Sn, and Tb.

16. (Previously presented) A luminescent glass according to Claim **10**, wherein the metal component to be adsorbed to the porous high silica glass is at least one metal component selected from the group consisting of Sc, Y, La, Pr, Nd, Pm, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu.

17. (Previously presented) A luminescent glass according to Claim **10**, wherein the metal component to be adsorbed to the porous high silica glass is at least one metal component selected from the group consisting of elements of Groups IVA, VA, VIA, VIIA, VIII, IIB and IVB of the Periodic Table.

18. (Previously presented) A luminescent glass according to Claim **10**, wherein the heating temperature is 900 to 1600°C.

19. (Previously presented) A luminescent glass according to Claim **10**, obtained by the process which further comprises, before the heating step, the step of adsorbing, to the porous glass, at least one element selected from the group consisting of B, N, F, Al, and P.

20. (Previously presented) A luminescent glass according to Claim **10**, wherein the porous high silica glass is obtained by causing phase separation of an alkali borosilicate glass by heat treatment and then treating the phase-separated glass with an acid.

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)